Notice of Allowability	Application No.	No. Applicant(s)		
	10/712,555	GIEROW ET AL.		
	Examiner	Art Unit	- 1	
	Alain L. Bashore	1762		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP	(OR REMAINS) CLOSED ir or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due cour	se. THIS	
1. \boxtimes This communication is responsive to <u>12-26-06</u> .				
2. \boxtimes The allowed claim(s) is/are <u>1-20 and 24-26</u> .				
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application	n No	from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	a reply complying with the require	ments	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXA es reason(s) why the oath o	AMINER'S AMENDMENT or NOTIC declaration is deficient.	CE OF	
5. X CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	v (PTO-948) attached	,	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☑ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1	.84(c)) should be written on t	ne drawings in the front (not the bac	k) of	
each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT.	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note	the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	formal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ☐ Interview Summary (PTO-413), Paper No./Mail Date		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛭 Examiner's	Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowar	ice	
		Olsay July Alain L. Bashori Primary Examine	e E ER	

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Mixon on 3-2-07.

The application has been amended as follows:

In claim 1:

Line 4, delete "high" and insert in place -sufficient--;

Line 10, after "coating" insert -for photogrammetric analysis--.

In claim 20:

Line 3, after "material" insert -with solvent--;

Line 4, delete "high" and insert in place --sufficient--;

Line 6, after "coating" insert -for photogrammetric analysis--.

Cancel claims 21-23;

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In claim 24: Line 3, after "material" insert –from a mixture of diffuse material with a solvent--;

Line 4, delete "high" and insert in place -sufficient--;

Line 11, after "coating" insert -for photogrammetric analysis--.

In claim 25: Line 3, "solution" insert –from a mixture of diffuse material with a solvent--;

Line 7: delete "high" and insert in place -sufficient--;

Line 12, after "coating" insert –for photogrammetric analysis--.

In claim 26: Line 3, after membrane insert –from a mixture of a diffuse material with a solvent--;

Line 4: delete "high" and insert in place -sufficient--;

Line 8, after "coating" insert -for photogrammetric analysis--.

Allowable Subject Matter

2. Claims 1-20, 24-26 are allowed.

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Reasons for allowance

3. The following is an examiner's statement of reasons for allowance:

The present invention includes independent claims 1, 20, 24, 25, and 26. All independent claims recite a method for applying a target reflector to an object for photogrammetric analysis.

Humpal et al considered the closest prior art. Humpal teaches a method for applying reflective elements. A diffuse material with sufficient index of refraction allows the reflection of light from a light source across an array of angles.

Humpal et al does not disclose the claimed combination including:

In claim 1:

mixing a diffuse material with a solvent, where the diffuse material has sufficient index of refraction so that the diffuse material will reflect light from a light source across an array of angles;

applying the diffuse material, and the solvent to the surface of the object so that the diffuse material bonds with the surface of the object; and

applying a reflective coating to the surface of the object over the diffuse material and solvent, where the diffuse material forms a target reflector underneath. The reflective coating for photogrammetric analysis.

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In claim 20:

step for applying a diffuse material with a solvent to the surface of the object; and where the diffuse material has a sufficient index of refraction so that the diffuse material will reflect light from a light source across an array of angles; and step for applying a reflective material over the surface of the object for photogrammertic analysis.

In claim 24:

casting a diffuse material in a film where the diffuse material from a mixture of a diffuse material with a solvent has a sufficient index of refraction so that the diffuse material will reflect light from a light source across an array of angles;

punching segments of the diffuse material from the film and onto to
the surface of the object, where the segments of diffuse material are held in
place with adhesive; and

applying a layer of reflective metalized coating to the surface of the object, where the segments of diffuse material form target reflectors on the surface of the object for photogrammetric analysis.

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In claim 25:

applying a liquid solution from a mixture of a diffuse material with a solvent of membrane material to a substrate, where the substrate has at least one diffuse areas on its surface;

curing the liquid solution of membrane material to form a membrane, where the diffuse area of the substrate form a diffuse area in the membrane, where the diffuse area in the membrane has a sufficient index of refraction so that the diffuse material will reflect light from a light source across an array of angles;

removing the membrane from the substrate; and

applying a reflective coating to the surface of the object, where the diffuse area of the membrane forms a target reflector for photogrammetric analysis.

In claim 26:

step for forming a diffuse area on a membrane from a mixture of a diffuse material with a solvent that casts the object,

where the diffuse material in the membrane has a sufficient index of refraction so that the diffuse area will reflect light from a light source across an array of angles; and

step for applying a reflective material over the membrane so that a

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target reflector is formed on the object for photogrammetric analysis.

For these reasons claims 1, 20, 24, 25, and 26 are deemed to be allowable over the prior art of record, and claims 2-10, 12-19 are allowable by dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Drawings

4. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the drawings filed 11-12-03 are considered informal in nature. Formal drawings are now required. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings.

Accordingly, replacement drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to this Office action. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

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Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alain L. Bashore whose telephone number is 571-272-6739. The examiner can normally be reached on about 7:30 am to 5:00 pm (Mon. thru Thurs.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alain L. Bashore Primary Examiner Art Unit 1762